

## Claims

1. An illumination control circuit for driving and controlling a light emission element, said circuit comprising:

5 detecting means for detecting a power source voltage of a power supply and outputting a detection voltage in response to a change of the power source voltage; and

a driving element and compensation means connected in series with the light emission element and the power supply, said driving  
10 element being provided for driving said light emission element and said compensation means being provided for generating a compensation voltage following the detection voltage,

wherein said compensation means, by generating a compensation voltage following the detection voltage, inhibits a change of a  
15 driving voltage applied between two ends of said light emission element and said driving element, with respect to a change in the power source voltage of said power supply.

2. The illumination control circuit according to claim 1, further  
20 comprising reference means for generating a constant voltage,

wherein the detecting means generates a detection voltage in response to a change of the power source voltage, based on a differential voltage between said constant voltage and said power source voltage.

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3. The illumination control circuit according to claim 1 or 2, wherein said detecting means outputs said detection voltage which

changes at a changing rate which is smaller than a change of the power source voltage.

4. The illumination control circuit according to claim 3, wherein  
5 said changing rate is variably adjustable.

5. The illumination control circuit according to claim 1 or 2,  
wherein the detecting means has voltage dividing resistor for  
dividing said change of the power source voltage and outputs partial  
10 voltage occurred in the voltage dividing resistor as said detection  
voltage.

6. The illumination control circuit according to claim 1 or 2,  
wherein the compensation means is formed of an active unit or an  
15 active circuit which power-amplifies said detection voltage.

7. An illumination control circuit for driving and controlling  
a light emission element, said circuit comprising:

a driving element connected in series with the light emission  
20 element and a power supply, said driving element being provided  
for driving said light emission element;

compensation means for supplying a control signal to the  
driving element; and

detecting means for detecting a power source voltage of the  
25 power supply, outputting a detection voltage in response to a change  
of said power source voltage, and for inhibiting a level change  
of the control signal by adjusting the compensation means using

the detection voltage.

8. The illumination control circuit according to claim 7, further comprising reference means for generating a constant voltage,

5 wherein said detecting means outputs a detection voltage in response to a change of the power source voltage, based on a differential voltage between said constant voltage and said power source voltage.

10 9. The illumination control circuit according to claim 7 or 8, wherein said detecting means has voltage dividing resistor for dividing a change of the power source voltage, and outputs partial voltage generated in the voltage dividing resistor as said detection voltage.